

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Herbert O. Funsten

Docket No.: S-100,630

Serial No.:

Examiner:

Filed :

Art Unit:

For : FOIL ELECTRON MULTIPLIER

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR 1.56, 1.97, AND 1.98**

Sir:

The documents listed below, copies attached, are submitted in compliance with the duty of disclosure defined in 37 CFR 1.56.

1. Brandes et al., "Compact Low-Noise Dynodes Incorporating Semiconductor Secondary Electron Emitting Materials," US Patent 5,680,008, Issued Oct. 21, 1997.

---

**CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8(a))**

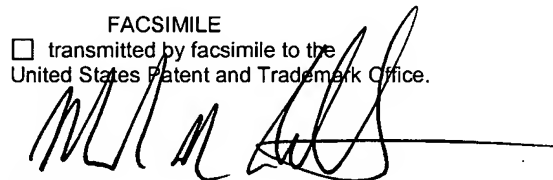
I hereby certify that this correspondence is, on the date shown below, being:

**MAILING**

☒ deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the:  
Commissioner for Patents, P. O. Box 1450,  
Alexandria, VA 22313-1450.

**FACSIMILE**

☐ transmitted by facsimile to the  
United States Patent and Trademark Office.



Signature

Mark N. Fitzgerald  
(type or print name of person certifying)

Date 9/25/03

2. Wainer, "Continuous Channel Electron Beam Multiplier, " US Patent 4,073,989, Issued, Feb. 14, 1978.
3. Horton et al., "Microchannel Electron Multipliers," US Patent 5,086,285, Issued, Feb. 4, 1992.
4. Goukassian, "Method for Fabricating Electron Multipliers," US Patent 6,015,588, Issued, Jan. 18, 2000.
5. Beetz, Jr. et al., "Microporous Micorchannel Plates and Method of Manufacturing Same," US Patent 6,045,677, Issued Apr. 4, 2000.
6. Durst et al., "Electron Multiplier and Method of Making Same," US Patent 6,455,987, Issued, Sep. 24, 2002.
7. Swingier, "Dynode Structure and Array for an Electron Multiplier," US Patent 4,668,890, Issued, May 26, 1997.
8. Fraioli, "Electron Multiplier," US Patent 4,095,132, Issued, June 13, 1978.


This Information Disclosure Statement is not to be construed as a representation that a search has been made or that additional matter material to the examination of this application does not exist. Applicant does not believe that any of these citations constitutes prior art under 35 U.S.C. 102.

It is requested that the above citations be made of record in the prosecution of this application.

Respectfully submitted,

Date: \_\_\_\_\_

9/25/03

  
\_\_\_\_\_  
Signature of Attorney

Reg. No. 48,300  
Phone (505) 665-5187

Mark N. Fitzgerald  
Los Alamos National Laboratory  
LC/IP, MS A187  
Los Alamos, New Mexico 87545

Form PTO-1449 U.S. Department of Commerce (Modified) Patent and Trademark Office  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  37 CFR 1.98(b)	Attorney Docket No.	Serial No.
	S-100,630	
	Applicant(s)	
	Herbert O. Funsten	
	Filing Date	Group

**U.S. PATENTS DOCUMENTS**

EXAMINER INITIAL	PATENT NUMBER								ISSUE DATE	PATENTEE	CLASS	SUB CLASS	FILING DATE
		5	6	8	0	0	0	8	10/21/97	Brandes et al.	313	533	04/05/95
		4	0	7	3	9	8	9	02/14/78	Wainer	428	131	02/14/78
		5	0	8	6	2	4	8	02/04/92	Horton et al.	313	103	08/18/89
		6	0	1	5	5	8	8	01/18/00	Goukassian	427	77	09/13/96
		6	0	4	5	6	7	7	04/04/00	Beetz, Jr. et al.	205	50	02/27/97
		6	4	5	5	9	8	7	09/24/02	Durst et al.	313	103	01/12/99
		4	6	6	8	8	9	0	05/26/87	Swingier	313	105	08/25/82
		4	0	9	5	1	3	2	06/13/78	Fraioli	313	103	09/11/64

**OTHER DOCUMENTS** (Including Author, Title, Date, Place of Publication)

	(Name of Author ALL CAPS)

EXAMINER:	DATE CONSIDERED:
-----------	------------------

\*EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.